

WHAT IS CLAIMED IS:

1. A method of manufacturing a vaccine containing an antigen other than CD14 which comprises incorporating into the vaccine said antigen and a polypeptide capable of activating mammalian B cells, the polypeptide having the amino acid sequence identified as SEQ ID NO:4, SEQ ID NO:5, or SEQ ID NO:6, a conservatively substituted variant thereof which activate B cells, a fragment of a said sequence which activates mammalian B cells, or a conservatively substituted variant of a said fragment which activates mammalian B cells.
2. The method of claim 1, further comprising the step of conjugating said antigen and said polypeptide.
3. The method of claim 1, further comprising the step of mixing the antigen and said polypeptide into the vaccine.
4. The method of claim 1, wherein the polypeptide comprises the amino acid sequence identified as SEQ ID NO:4, SEQ ID NO:5, or SEQ ID NO:6, or a conservatively substituted variant thereof which activate B cells.
5. The method of claim 4, wherein the polypeptide comprises the amino acid sequence identified as SEQ ID NO:5, or a conservatively substituted variant thereof which activate B cells.
6. The method of claim 4, wherein the polypeptide comprises the amino acid sequence identified as SEQ ID NO:4.
7. The method of claim 4, wherein the polypeptide comprises the amino acid sequence identified as SEQ ID NO:5.
8. The method of claim 4, wherein the polypeptide comprises the amino acid sequence identified as SEQ ID NO:6.
9. The method of claim 4, wherein the polypeptide is recombinant.

10. A kit for the preparation of a vaccination comprising a predetermined amount of an antigen and a predetermined amount of a polypeptide of claim 1.
11. A kit for the preparation of a vaccination comprising a predetermined amount of an antigen and a predetermined amount of a polypeptide of claim 4.
12. A kit for the preparation of a vaccination comprising a predetermined amount of an antigen and a predetermined amount of a polypeptide of claim 5.
13. A kit for the preparation of a vaccination comprising a predetermined amount of an antigen and a predetermined amount of a polypeptide of claim 6.
14. A kit for the preparation of a vaccination comprising a predetermined amount of an antigen and a predetermined amount of a polypeptide of claim 7.
15. A kit for the preparation of a vaccination comprising a predetermined amount of an antigen and a predetermined amount of a polypeptide of claim 9.
16. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 1 to the patient.
17. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 2 to the patient.
18. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 3 to the patient.
19. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 4 to the patient.
20. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 5 to the patient.
21. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 6 to the patient.

22. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 7 to the patient.

23. A method of vaccinating a patient comprising administering an antigen other than CD14 and a polypeptide of claim 9 to the patient.

24. A vaccine manufactured according to the method of claim 1.

25. A vaccine manufactured according to the method of claim 2.

26. A vaccine manufactured according to the method of claim 3.

27. A vaccine manufactured according to the method of claim 4.

28. A vaccine manufactured according to the method of claim 5.

29. A vaccine manufactured according to the method of claim 6.

30. A vaccine manufactured according to the method of claim 7.

31. A vaccine manufactured according to the method of claim 8.

32. A vaccine manufactured according to the method of claim 9.